MIT's Oldest and Largest Newspaper

thetech.com

The Tech
Established 1881

WEATHER, p. 2
THU: 55°F | 46°F Showers Likely
FRI: 55°F | 23°F Mostly Cloudy
SAT: 34°F | 26°F Chance Snows

Volume 138, Number N2

Thursday, February 15, 2018

MAHI SHAFIULLAH—THE TECH

West Garage parking facility (W45) is in the process of being demolished for the new undergraduate dorm on campus, which is expected to open in 2020.

MIT releases new findings on its connections to slavery

Students research links between Institute and slavery, MIT founder Rogers owned six slaves

By Emma Bingham and Whitney Zhang
EDITORS

President L. Rafael Reif announced findings about MIT's connection to slavery Monday.

In an email to the MIT community, Reif wrote that student researchers had found "a range of evidence showing how MIT's early decades were shaped by the post-Civil War process of [R]econstruction," and MIT had connections to many industries that "depended directly or indirectly on labor from enslaved people."

The findings also revealed how "ugly racial attitudes" penetrated student publications and the curriculum in classes of the time, Reif wrote.

One of the most significant findings was that MIT founder William Barton Rogers and his wife, Emma, owned six slaves when they lived in Virginia in the 1840s and 1850s.

The findings emerged from a new class created last fall, MIT and Slavery, which was led by Professor Craig S. Wilder, a historian with expertise on the topic of race and slavery in American universities.

In an interview with *The Tech*, Reif, Wilder, SHASS Dean Melissa Nobles, and Institute Archives and Special Collections Archivist Nora Murphy discussed the origins of the class and their findings.

Reif said he originally assumed it was "obvious" that there was no connection between MIT and slavery, but upon reflection, he realized study was needed. He "didn't want to be left speechless" if asked about the topic, so he contacted Nobles, who brought in Wilder to help.

Wilder wrote *Ebony and Ivy*, which Nobles called the "standing tome" on the relationship between slavery and elite American universities.

The charge to investigate Rogers specifically resulted from a class discussion on Philip Alexander's book *A Widening Sphere: Evolving Cultures at MIT*, in which there was a reference to Rogers's "negro serving man," Levi, being present at Rogers's memorial service. While records of Levi have not been found, it led to further research into census records.

Census records in 1860 showed that Rogers owned slaves, includ-

Slavery, Page 10

Smoking to be banned in every campus living space in fall 2019

Administration used 2010 survey to support decision, student leaders say data is outdated and inaccurate

By Patrick Wahl
EXECUTIVE EDITOR

The Committee on Student Life (CSL) determined that smoking will be banned in the East Campus dormitory beginning fall 2019.

With the closure of Senior House last summer, East Campus' 4W and 5E halls are the only undergraduate living spaces on campus where smoking is currently allowed. CSL's report on the matter found that no other universities allow smoking in dormitory rooms.

The report called for an increase in smoking discouragement and cessation programs both in East Campus and in other dorms, as well as designated smoking areas out of doors.

The move to ban smoking comes nearly over a year after CSL began meeting with residents of Senior House and East Campus in the fall of 2016. East Campus president Allie Stanton '18 announced the committee's decision in an email to dorm residents Nov. 13, though at that time the parties had yet to finalize when the ban would be instated.

CSL used a 2010 survey by *The Tech* to support its findings, but these results were outdated and had a low response rate, Stanton said in an interview with *The Tech*. East Campus leadership conducted its own survey, which found that seven percent of residents in the dorm smoked.

Stanton noted that although the floors allow and accept smoking, they attempt to educate their members about the dangers of smoking and avoid peer pressuring non-smokers into participating. Even before the decision, Stanton had been working with MIT Medical to provide smoking cessation aids to

Smoking, Page 10

New House floods again due to fire sprinkler, students temp. relocated

An accidentally-triggered fire sprinkler in a second floor New House dorm room caused the latest occurrence of flooding in New House Saturday afternoon. Water leaked into the first floor lobby, the second floor corridor, and a section of the building closed for renovation. The floodwater affected six dorm rooms housing seven students.

New House residents were temporarily evacuated to MacGregor House by housing staff and area directors, while MIT Housing and the construction team worked to alleviate the damage to residential areas.

Fortunately, damage was not extensive, as there were no fires or injuries.

According to an emailed statement from David Friedrich, senior director of housing operations and renewal, to *The Tech*, "All students but one were able to return to their rooms on Saturday evening. The one student who was relocated temporarily is now able to return to their room." Friedrich also reminded residents to avoid contact with sprinkler pipes and heads.

At the end of the 2016–17 academic year, after New House faced possible destruction, sections were closed for renovations due to extensive water damage from similar flooding incidents in 2015 and 2016 involving burst pipes and fire sprinklers. New House is slated to open to full capacity in fall 2018.

—Jocasta Manassah-Lewis

Remembering the life of student Amelia Perry

By Sheila Baber
NEWS EDITOR

Amelia Perry G died Jan. 30 at hir home in Somerville. A fifth year PhD student in mathematics, Perry is well remembered by many for hir charm, wit, and passion to fight against injustice.

Born Oct. 3, 1991, Perry was raised in Manchester, England, and Concord, Mass. In high school, Perry attended the Program in Mathematics for Young Scientists (PROMYS) through Boston University, eventually becoming the head counselor.

Perry studied mathematics at the University of Oxford as an undergraduate. At Oxford and MIT, Perry researched a broad range of topics in applied mathematics, including machine learning, statistical physics, and data science; zie recently made headway in using algorithms alongside cryo-electron microscopy.

A brilliant musician, Perry played guitar, violin, numerous other stringed instruments, and arranged music for the orchestra and singing ensemble at Oxford.

David Rolnick G, a fifth year PhD student in mathematics and previously an undergraduate at MIT, met Perry within his first few weeks of

Amelia, Page 2

COURTESY OF AMELIA'S FAMILY

Amelia Perry was a devoted and talented musician.

IN SHORT

A blood drive will be held in La Sala de Puerto Rico on the second floor of the student center today and tomorrow from 1–6 p.m. Visit the following website for more details and to make an appointment: http://web.mit.edu/blood-drive/www/.

Monday, Feb. 19 is an **Institute holiday** for President's Day. Tuesday, Feb. 20 will follow a **Monday schedule**.

***The Tech* is looking for news and sports writers**. Please write to join@tech.mit.edu to get started.

Send news and tips to news@tech.mit.edu**.**

ESSAYS THAT WORKED

Not everyone wants to be an engineer. **CAMPUS LIFE, p. 5**

THINGS YOU WISH YOU THOUGHT ABOUT YESTERDAY

The history of Valentine's Day you never knew. **CAMPUS LIFE, p. 5**

HEROES WHO ARE HUMAN, TOO

Poweful *Black Panther* cast makes waves in Hollywood. **ARTS, p. 8**

HER ADVICE MATTERS

Submit your questions at tinyurl.com/AskAuntieMatter. **CAMPUS LIFE, p. 5**

SECTIONS

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WEATHER

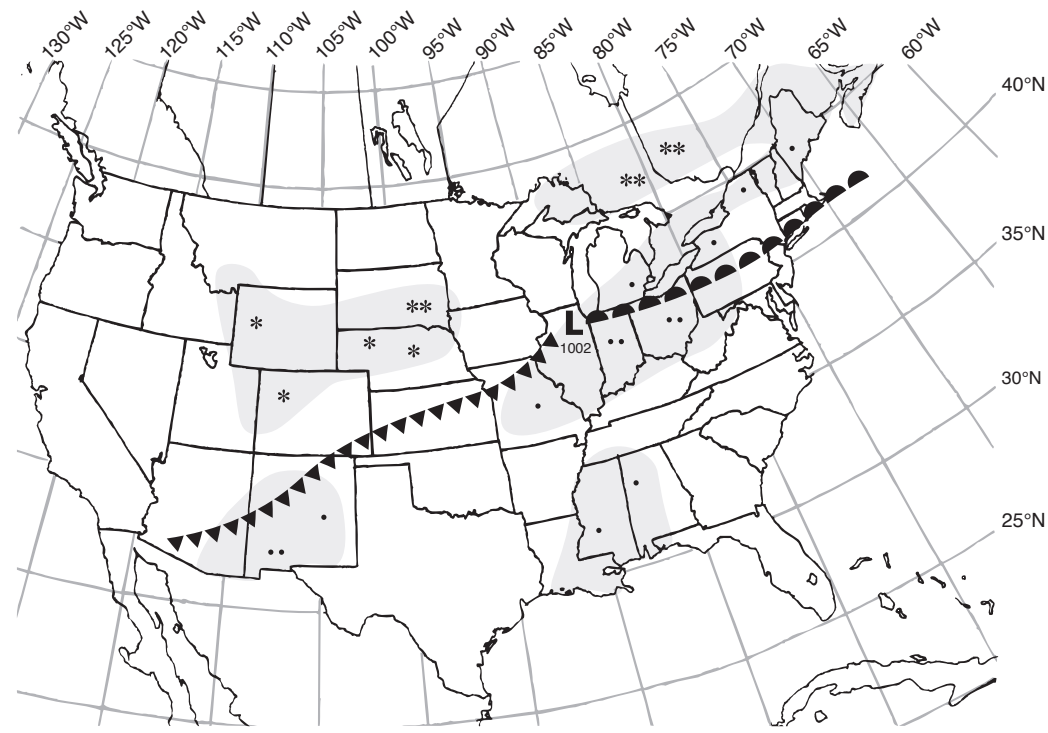
Uncertain chance of snow over the weekend

By Jordan Benjamin
STAFF METEOROLOGIST

Unusual warmth will envelop the Northeast in advance of an approaching cold front and rain tonight. Highs today will soar into the 50s °F today and remain warm through mid-day tomorrow as the front and rain move over the area. In the wake of the front, strong winds from the northwest will hasten the return of cold air, and temperatures will plunge into the lower 20s °F on Friday night. Over the weekend, the most interesting and potentially most impactful aspect of our upcoming weather will approach. A low pressure system will slide out of the Ohio Valley towards the Mid-Atlantic and Northeast on Saturday. With cold air in place, this could mean a chance of meaningful snow Saturday night into Sunday. The specifics of the storm's track are still uncertain this early in time; if the storm track were to move too far south or north, Boston could be spared any precipitation and effects. Forecasters will keep a close watch on this system over the next couple of days to assess its impact to the local area.

Extended Forecast

Today: Mostly cloudy. High around 55°F (13°C). SW Winds at 5-10 mph.
Tonight: Showers likely. Low around 46°F (8°C). SW winds at 5-10 mph.
Tomorrow: Chance of showers early, then mostly cloudy. High around 55°F (13°C). Low around 23°F (-5°C). Winds NW at 10-20 mph.
Saturday: Mostly sunny. A chance of snow late. High around 34°F (1°C). Low around 26°F (-3°C).
Sunday: Partly cloudy. High around 45°F (7°C).



Situation for Noon Eastern Time, Thursday, February 15, 2018

Weather Systems	Weather Fronts	Precipitation Symbols			Other Symbols
			Snow	Rain	
H High Pressure	Trough	Showers	* ▽	• ▽	Fog
L Low Pressure	Warm Front	Light	*	•	Thunderstorm
§ Hurricane	Cold Front	Moderate	**	••	Haze
	Stationary Front	Heavy	***	•••	

Compiled by MIT Meteorology Staff and *The Tech*

Former MIT chancellor named next Harvard pres.

Bacow: 'I learned how to be a professor and a university leader at MIT'

By Jessica Shi
NEWS EDITOR

Members of the Harvard presidential search committee announced Sunday afternoon that Lawrence S. Bacow '72, who served at MIT for 24 years as a faculty member and later, senior administrator, will be the University's 29th president.

As MIT's chancellor from 1998 to 2001, Bacow led a redesign of the residential system that sought to fulfill then-President Charles M. Vest's edict that all freshmen be housed on campus while still accommodating the interests of students and living groups, according to *The Tech*'s coverage at the time.

Bacow also pushed for five faculty residences in Simmons Hall, which was then under construction; for the development of community spaces where faculty and students could interact outside the classroom, such as the Zesiger Center; and for increased support of the UROP program, MIT News wrote in a press release Monday.

However, several of his decisions, such as his insistence on housing the Technology Enabled Active Learning (TEAL) physics program in the student center and the inclusion of a daycare center in the Sidney-Pacific graduate dormitory, drew the ire and protest of students, *The Tech* wrote in a 2001 editorial reflecting on his legacy.

Bacow, Page 10

COURTESY OF THE HARVARD CRIMSON

Harvard's next president, Lawrence S. Bacow '72, is an MIT alumnus and former chancellor.

Institute centralizes bias reporting for students

Gender- and non-gender-based bias collated under Title IX and Bias Response office

By Mark Goldman
STAFF REPORTER

Chancellor Cynthia Barnhart announced in an email to the MIT community Sept. 1 that all types of bias involving students would be incorporated into the Title IX office, which previously only handled gender-related cases, thus forming the Title IX and Bias Response (T9BR) office. During its first semester, T9BR received around ten reports of non-gender-based bias, T9BR Director Sarah Rankin wrote in an email to *The Tech*.

When discussing the transition to T9BR, Rankin wrote, "We now have a centralized website and online reporting form that makes it much easier for all members of our community to report any form of bias that occurs on campus." Rankin emphasized the importance of tracking bias across campus to "identify any requests, trends or opportunities for community education, training and outreach, or changes to existing practices."

Prior to T9BR, there was no central office to report bias incidents, according to Rankin Complaints against students were handled by the Office of Student Conduct, with the Committee on Discipline deciding the outcome. Now, T9BR investigates complaints, with COD still deciding outcomes.

Complaints against faculty and staff continue to be handled by Human Resources. However, Rankin added, "In all cases T9BR can serve as an initial resource to report bias incidents."

Most of the reports so far have been anonymous, and no reports resulted in a formal investigation. By comparison, the number of reports received for gender-related bias last academic year was 110, with 12 leading to formal investigations.

When asked about the difference in the number of reports, Rankin was hesitant to forecast, but wrote, "As more people learn about what constitutes sexual misconduct and where to go for help, reporting has increased. It's possible we could see the same trends for non-gender bias cases as our community education and outreach work continues."

Despite the new centralized structure, gender- and non-gender-based bias are still treated differently.

Based on COD Rules and Regulations (CODRR), *The Tech* noted some differences between the handling of the two types of bias. As of press time, these have not been confirmed or denied by the COD.

If the complaint is against non-gender-based bias, the person bringing forth the complaint is not informed about the outcome of a formal investigation (CODRR XIII.D and IX.G.ii) and generally cannot appeal a decision (CODRR XIII.C and XII).

Sexual misconduct cases are heard by members of the COD Sexual Misconduct Subcommittee, who receive specialized training (CODRR XIII.E.i); on the other hand, cases involving non-gender-based bias can include COD members without specific training in the relevant areas.

During hearings related to sexual misconduct, the two parties are physically in different rooms, unless both parties agree to be in the same room. In hearings related to non-gender-based bias, whether the parties are in the same room or not is left up to the chair of the COD (CODRR XIV.F and XI.F.iv).

According to Rankin, T9BR is "still considering how to share [reports of non-gender-based bias] in a way that balances our responsibility to protect student anonymity and our commitment to transparency."

When asked about the future path of T9BR, Rankin wrote, "We will continue to work on our procedures to improve our response, and we hope to conduct some focus groups with students to better understand their needs and questions."

Incidents of bias can be reported at t9br.mit.edu.

Perry was advocate for LGBTQ and mental health

Amelia, from Page 1

graduate school.

"Amelia was outstandingly charismatic. You really clicked with her instantly. ... If you met her you remembered her," Rodnick said in a phone call with *The Tech*.

"There were so many things she was interested in, ... so many things she was good at seemingly without trying," Rodnick continued. "I was talking to Amelia one day about how impressed I was at throat singers who can sing two notes at once. And Amelia just started singing, and I realized she was singing three musical lines together. It was a Bach double concerto for two violins — two violin parts and also the orchestral part, simultaneously, from memory. I still have no idea how she did it."

Perry identified as transgender and was a fierce advocate for mental health and transgender rights. In an email sent out to the LGBTQ community, Assistant Dean of LGBTQ Services Abigail Francis and Assistant Director of LGBTQ Services Julio Oyola wrote, "[Perry's] resilience and impassioned activism amidst various obstacles has contributed to significant strides in awareness, education, and inclusion for trans and queer students in hir time at MIT."

"We mourn the tragic loss of a brilliant mind, a brave soul, and a friend to many," Professor David Mindell wrote in an email to *The Tech*. Mindell is the head of Edgerton House, the dormitory Perry lived in.

Perry is survived by hir partners Daria Phoebe Brashear, Rox Sayde, and Georgia Squyres, hir parents Alan and Catherine Perry, hir sisters Nicola and Caroline, and hir cats Nip and Tuck.

A service will be held on Feb. 24, with location and time yet to be determined.

Those in the MIT Community seeking support and comfort could choose to use the following services: MIT Mental Health and Counseling (617-253-2916), Student Support Services (617-253-4861), Graduate Personal Support (617-253-4860), and LGBTQ Services.

Editor's note: This article uses both the female "she, her" pronouns and the gender neutral "zie, hir" pronouns. Perry identified as both transgender and non-binary.

ASK SIPB

Password managers

A secure way to manage login details for your accounts

By Manushaqe Muco

The Student Information Processing Board is restarting the "Ask SIPB" column. This is your chance to ask questions regarding computing at MIT or in general. We'll publish semi-regularly, depending on the frequency of questions and overall interest. You can submit your questions using this google form: https://goo.gl/forms/jd7jYiuPC57NiWbf1, or by sending an email to sipb@mit.edu. We also encourage you to stop by the SIPB office (W20-557).

This issue will be a quick introduction to password managers.

What is a password manager?

If you try to create an online account these days, you'll notice different prompts on how t o craft a strong, unique password for that account. This matters, because a weak password makes it easy for the account to be hacked, thus jeopardizing your information, credentials and privileges. On the other hand, a strong password is hard to remember, especially if you have to come up with different passwords for different accounts. Reusing passwords is not advised, as a leaked password from one account can be used to compromise your other accounts.

A password manager solves the problem of managing different passwords by storing your login information for all your accounts, and allowing you to login automatically. All you need to remember is a strong, unique master password for the manager itself. If you need to log in to an account, you type your master password into the password manager, and it will automatically fill the information required to log in. Password managers can also generate secure passwords when you create new accounts, and they offer password-changing tools for existing accounts.

How to get started

The first step is to choose a secure master password. IS&T provides a guide on how to choose a strong password here: http://kb.mit.edu/confluence/x/3wNt. It's best to not write down your password but instead use tricks to make it easier to remember or recall, unless you are positive you can store the piece of paper in a secure location where others wouldn't bother to look.

After installing a password manager, you can import or export your passwords from browsers. You can either add them as you browse or transfer them manually. However, you may want to change the existing passwords for your accounts to more secure ones. As mentioned before, password managers have tools for changing passwords, and they can also identify weak or duplicate passwords for you.

Types of password managers

One type of password manager is locally installed software, such as desktop or phone applications. These password managers can be used offline.

There are also web-based password managers, which are more portable. Major browsers, such as Chrome, Firefox, Internet Explorer, offer integrated web-based password managers. However, some of the browser-based password managers don't store your passwords in an encrypted form, or don't offer the option of generating secure passwords for you.

To mitigate this, you can use dedicated web-based password managers that encrypt your data. Many of them are also cloud-based, and store your data in an encrypted form in the cloud. Cloud-based password managers also allow you to access your information from different computers. An example of a cloud-based password manager is LastPass, which is free for MIT students. LastPass also includes mobile and desktop applications, two-factor authentication, and works on all operating systems. You can find more information about LastPass here: http://kb.mit.edu/confluence/x/d1sYCQ.

Another type of password manager is token-based. The user is authenticated using a local hardware device (token), such as secure USB flash devices or smart cards. The data stored in the token is usually encrypted.

What are the pros and cons of using a password manager?

Password managers allow you to generate secure passwords for your accounts. They also do away with the burden of remembering different passwords. Another advantage is that password managers prevent password reuse. Because people go for passwords they can memorize, they often use the same password for several sites. If one password gets compromised, attackers can use the credentials to log into any site that password was used.

Some password managers allow you to share credentials between multiple users of the same type of password manager, which is useful for shared accounts. They can also help protect against phishing. For example, if you are trying to access an account, and the password manager doesn't automatically fill in the information, you may be on a phishing website. Similarly, password managers can also compare the website's url to that of a stored one, and will not fill in information when mismatched.

One downside of using a password manager is that forgetting your master password cuts your access to all your stored data. If you want to access your accounts, you would have to reset each password individually. Fortunately, you don't have to go through all that trouble, as password managers provide the ability to recover or reset your master password. Another downside is that if the master password is hacked, the attacker gains access to all your passwords. Which is why selecting a strong master password is important!

How secure is a password manager?

Any password stored in an unencrypted manner makes your data vulnerable. However, many password managers (such as LastPass) encrypt your data with the master password as a key. Even then, a weak master password or storing the password in a compromised location (local or cloud) will leave you vulnerable. Entering the master password via any physical keyboard also creates opportunities for attacks such as keylogging. Virtual keyboards leave you open to screenshot attacks. A lot of password managers solve these issues by using multi-factor authentication. Nonetheless, the algorithm a password manager uses to generate a password can still compromise your data if the passwords generated aren't secure enough.

Let's assume you are using a very good password manager and have a strong master password. If your manager is web-based, your data can still be attacked by hackers that exploit classic web vulnerabilities to steal passwords. You can also get your master password leaked by entering it on phishing websites or frames. Sharing credentials can also cause problems when authenticated users shouldn't have the same permissions as the main user.

Have something to say?

Write opinion for *The Tech*!

opinion@tech.mit.edu

OPINION OPINION OPINION

CAMPUS LIFE CAMPUS LIFE CAMPUS LIFE

Get Clued In 2018

Debut of freshman retreat is, surprisingly, a real treat

By Tafsia Shikdar

On the final Friday before the start of Spring Semester, instead of pulling a gaming all-nighter, going wild with a last-day-of-IAP party or mourning the death of our beloved Star Market, 15 freshmen ventured out from the safety of their dorms to embark upon a journey of friendship and self-discovery.

Well, at least, that's how it was advertised. No one really knew what to expect — this was the first "Get Clued In" Retreat ever, and it was only a day long. Were we going to have to do some physical challenges? Some cringe-y self-reflection exercises? Was everyone going to be really awkward? Even worse: would everyone already know each other, leaving me out? These were the worries racing through my brain as I hesitantly stepped on the chartered bus at 4:30 p.m. (quickly devouring a Tofutti cone I had snatched from the weak, terminally ill hands of Star Market).

24 hours later, on the bus ride coming back, I was surprised by how much I had enjoyed Get Clued In. As a non-American, I had always thought of a retreat as being stuck in a cabin in the woods and forced to do trust falls with strangers. (I was only slightly disappointed that Get Clued In was not like that.) Let me just say we were living the dream, with our single rooms that were fully equipped with double beds and ensuite bathrooms. And the fooooood. We were kept constantly stuffed with dessert and snack breaks, not to mention the three main meals! But anyway, back to the important stuff: Reflection.

There were definitely some sessions that I liked more than others, such as one on hearing personal anecdotes from MIT staff or a session on identifying your own core values (i.e. ones with multiple choice answers and a lot of direction because no one likes open-ended reflection). However, I was happy that all the sessions were short enough that nothing got boring or felt tedious. Overall, I think the varied, well-guided, short activities were actually quite useful in thinking about my experience of the previous semester and setting new goals for myself. And this is from a person who normally thinks reflection is a bunch of profound-sounding nonsense! I even listened to some advice from the MacGregor Area Director, and purchased a (cute, yoga-cat themed) calendar — no more midterms creeping up on *this* gal.

However, my favorite part of the 24 hours was meeting some new frosh. Considering the low sample size, I was pleasantly surprised by how many people I connected with, and I immensely enjoyed solving puzzles, playing giant Jenga and (briefly) getting lost in woods with them! I guess everything seems better when you win the puzzle hunt...

COURTESY OF TRISH MORAN

Look at those smiles! (Get Clued In Crew, in front of MIT's Endicott House.)

The moral of the story? A very cliché "say yes" to more random, spontaneous experiences. There are a lot of opportunities at MIT to take advantage of! And, on the off chance that you're a pre-frosh, definitely consider signing up for Get Clued In 2019. I'm sure you'll enjoy it as much as I did, but if worst comes to worst, at least it's free food.

This is Massachusetts

You're Probably Liberal

Write Opinion for *The Tech*!

Join us for dinner Sundays and Tuesdays at 6 p.m. in our office at the student center (W20-483)

Or, email *join@tech.mit.edu*

For students interested in collaborating with startups...

FREE DINNER!

JOIN US FOR OUR PITCH EVENT
3/1/18 | 3-270
6:30-8PM

Students from all backgrounds are invited to join and hear pitches from our selected startups!

For startups interested in participating this semester...

THE PROGRAM

MIT Ventureships Club provides a great opportunity for early-stage startups to get connected with eager and motivated students to work on a semester-long volunteer project. We seek companies that are committed to working closely with MIT students and providing entrepreneurial mentorship by sharing experiences and lessons learned while building your venture.

APPLY NOW!
TINYURL.COM/MIT18

MITVENTURESHIPS.ORG

Do you like doodling during class?
Are your psets covered with drawings?
If so, become a Tech Illustrator!

E-mail join@tech.mit.edu

Purim is Coming!

(Feb 28 evening and March 1)

Four Observances:

מקרא מגלה: Reading the Megilah

משלח מנות: Sending Food Portions One to Another

מתנות לאביונים: Giving Presents to the Poor

סעודת פורים: Festive Meal

Learn important details about its History, Philosophy & Observance
Purim play: Death of a Mind

Jewish Survival: Torah& Talmud, the Fountain of Infinite Complex Ideas, Never Ending Learning!

At Our Website: www.torahjewishheritage.com

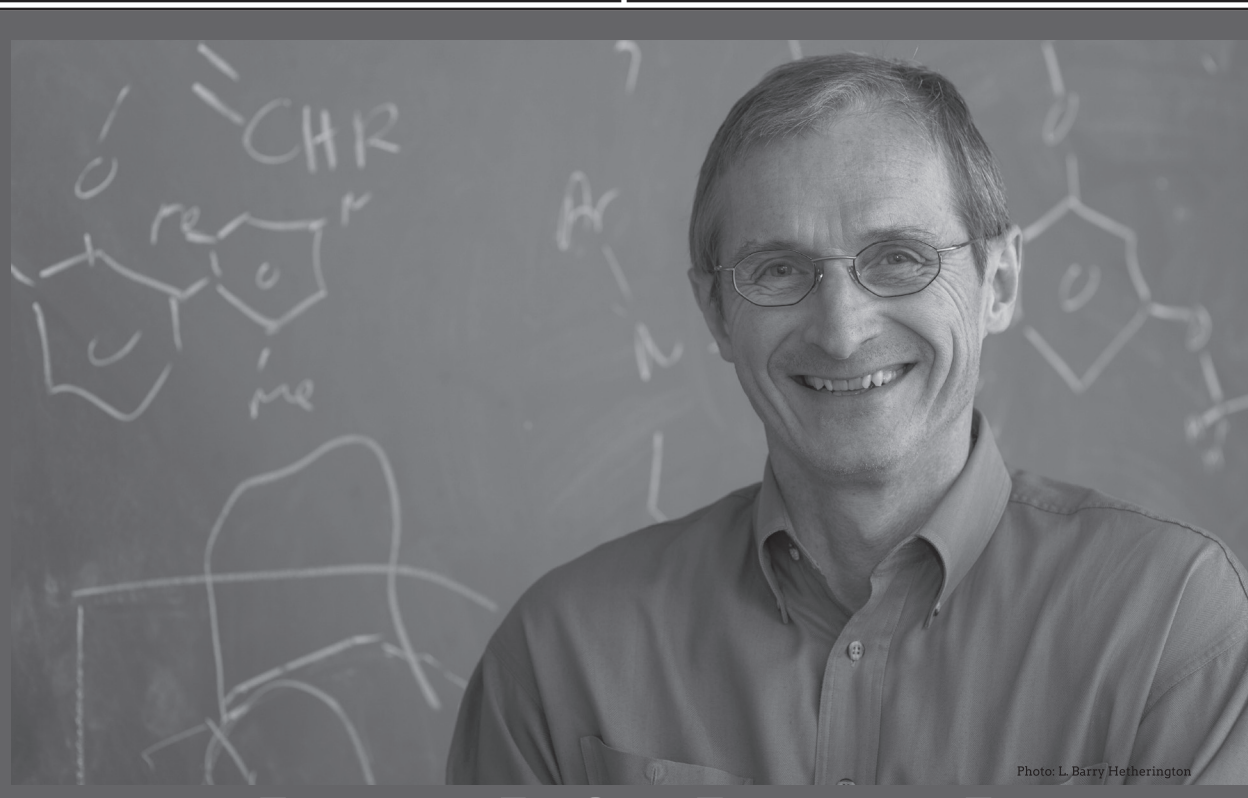


Photo: L. Barry Hetherington

Richard Schrock

F G Keyes Professor of Chemistry
Department of Chemistry

Thursday, February 15, 2018
4 pm
Huntington Hall (10-250)

Adventures in Inorganic Chemistry and Catalysis

All members of the MIT community are invited

killianlectures.mit.edu

KILLIAN LECTURES
James R. Killian, Jr. Award and Lecture Series

Massachusetts Institute of Technology

Solution to Cabinet

from page 14

O	W	N	S		C	O	L	A	D	A
P	O	E	T		O	L	I	V	E	S
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Solution to Bees

from page 12

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Solution to Soulmate

from page 14

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6	1	5	2	4	9	3	7	8
3	2	4	8	6	7	9	1	5
8	3	7	1	9	5	2	4	6
1	4	6	3	7	2	5	8	9
2	5	9	4	8	6	7	3	1
5	7	1	6	2	4	8	9	3
4	6	2	9	3	8	1	5	7
9	8	3	7	5	1	4	6	2

Solution to XOXO

from page 13

8	4	9	6	5	7	1	3	2
9	5	1	7	6	8	2	4	3
5	1	6	3	2	4	7	9	8
4	9	5	2	1	3	6	8	7
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7	3	8	5	4	6	9	2	1
2	7	3	9	8	1	4	6	5
3	8	4	1	9	2	5	7	6
1	6	2	8	7	9	3	5	4

Solution to Love You

from page 12

6	2	1	5	4	3
5	1	6	4	3	2
1	3	2	6	5	4
3	5	4	2	1	6
2	4	3	1	6	5
4	6	5	3	2	1

Solution to Hug Me

from page 14

1	2	3	6	5	4
6	1	2	5	4	3
3	4	5	2	1	6
5	6	1	4	3	2
4	5	6	3	2	1
2	3	4	1	6	5

Solution to Be Mine

from page 12

4	7	2	9	6	1	5	8	3
5	6	9	3	4	8	2	1	7
1	8	3	2	5	7	4	9	6
7	2	6	4	8	9	1	3	5
9	5	4	1	2	3	6	7	8
3	1	8	5	7	6	9	4	2
6	4	7	8	1	2	3	5	9
2	9	1	7	3	5	8	6	4
8	3	5	6	9	4	7	2	1

ARTS ARTS ARTS

THEATER REVIEW

‘Lonely Planet’ and its depiction of friendship

‘We will leave some traces, for we are people and not cities.’ — Eugene Ionesco

★★★★☆

Lonely Planet

Written by Steven Dietz

Directed by Jim Petosa

Mosesian Center for the Arts

Feb. 3 – March 4

COURTESY OF ANDREW BRILLIANT

Michael Kaye (left) and Tim Spears (right) in *Lonely Planet.*

By Johnson Huynh
STAFF WRITER

From the very start of the play, you can tell that something special is going to come from the intense chemistry between Jody (Michael Kaye) and Carl (Tim Spears). Their relationship is the highlight of *Lonely Planet*. Even while the story trudges at times, their bond is something to behold. Through both acts, their friendship serves as a beautiful testament for how people are able to change one another.

Lonely Planet tells a bittersweet story, set in the height of the AIDS pandemic, of Carl’s attempt to persuade Jody to leave the comfort of his map shop to get tested. All throughout Petosa’s production, Carl tries to show that there is a world bigger than the pieces of paper that have surrounded Jody his entire life. He primarily does so by telling outlandish stories of his day job and by bringing in chairs. And does this character have a fancy for chairs.

Theatre productions tend to experiment with the way they incorporate space into the story, whether that be through the way the stage is built or even how it’s lit. This production is one of the most unique I’ve seen so far, for a gigantic arch of chairs has been erected on the stage. As we later find out, Carl has been bringing Jody chairs for quite a while now for no apparent reason. In lighter moments, the arch brings levity to the stage. In darker ones, the arch seems to entrap the characters themselves.

Kaye plays the role of Jody wonderfully, capturing him with such a quiet power that it’s very easy to get absorbed in his acting. The real star, though, would have to be Spears. Carl is a complicated character filled with peaks of hilarious insanity as well as valleys of grave seriousness. However, Spears does this character justice, giving him the layers that this performance needs. One moment, he’ll have you doubling over in laughter from his jokes. Another, he’ll have you rubbing the tears, which have mysteriously appeared, from your eyes.

These layers prove to be jarring at times as *Lonely Planet* leap-frogs from a very existential monologue delivered by Spears to a sword fight between the two men. In the end, this production proves to be a very influential production that asks a lot of its audience. I walked away from that theater with tears in my eyes, and lingering sorrow of Carl in my mind.

The chairs would later be revealed to have a more significant meaning than I could ever have expected. It’s the little things in life that we will remembered by. This is what *Lonely Planet* shares. As the light dims down on stage, you’re left with questions cluttering your mind.

Who notices when *you’re* gone? Will someone leave a chair for you?

MOVIE REVIEW

The energy crisis can be solved by a particle accelerator?

The Cloverfield Paradox gives conspiracy theorists a good name

COURTESY OF SCOTT GARFIELD/NETFLIX

Jensen awaits her fate aboard the Cloverfield Station.

By Ivy Li
ARTS EDITOR

When a massive energy crisis plunges the world population into a hellish existence, the Cloverfield Station is the last hope for our humble planet. The station runs a particle accelerator on a space station that will provide a large amount of power for countries around the world. The plot kicks in when they run the accelerator, known as the Shepard, but instead of providing the world energy, they prove the conspiracy theorists right: they indeed create the “Cloverfield Paradox” and transport the station and crew to an alternate reality. Now, if only solving the energy crisis was so simple. There, they face the horrors of the universe, where nothing makes sense.

I preface this review by stating I have not seen the previous Cloverfield films, but frankly, a good film stands on its own merits, and this stands on thin air. This review is also filled with spoilers, because it is difficult to talk about without spoiling. Meet Ava Hamilton, who reluctantly joins the mission and leaves her husband on Earth. Hamilton is given a compelling backstory but not enough to do, and while the rest of the crew contributes to solving their problem, they are not compelling. Aside from their accented English — or in the case of Tam, fluent Mandarin that everyone else miraculously understands — these characters give us little to remember them outside of the plot. Our station crew is a diverse cast that is not so diversely utilized.

Wait, what plot? The crew transport themselves away and figure out how to transport themselves back and save the world. But that’s not what I remember. I think back and remember distinctive horror elements (which I won’t spoil because I’d be giving away the only redeemable parts of this film). The body horror and the breakdown of physics is all the more terrifying knowing the crew is sent to an alternate universe and are vulnerable to anything. It was a hell of an entertaining movie, and the lack of any logic allows for creative, gruesome ways to manipulate the human body, but in the end, these moments don’t add anything but shock factor.

This alternate universe — bringing quantum entanglement into the picture — drives interesting questions; the film takes the simple route, which is not necessarily a bad thing. Hamilton faces a choice between a reality where her children are alive and her children’s aren’t. She survives the horrific ordeals of the alternate universe, where they do not belong, where their station machinery eats them alive, where the implausible takes their lives one by one. In the end, she chooses her original universe, where her children aren’t alive but her husband is, because it is *her* world, and that possessive adjective is all that matters.

★★☆☆☆

The Cloverfield Paradox

Directed by Julius Onah

Screenplay written by Oren Uziel and Doug Jing

Starring Daniel Brühl, Elizabeth Debicki, Aksel Hennie, Gugu Mbatha-Raw, Chris O’Dowd

Rated R

Now Playing on Netflix

ARTS ARTS ARTS

Graduate students open The February School, a creative event space

Graduate students in the Program in Art, Culture and Technology (ACT) have turned the Weisner Gallery, located on the second floor of the student center, into a creative event space called The February School. The organizers described it as "an intervention into the nested ecosystem of education at MIT," according to posters advertising the School.

Nicolas Kisic Aguirre G, the student who initially applied to use the Weisner Gallery, views this student-managed space as separate from what he called "somewhat oppressive structures of academia."

The events span the interests of ACT students: creating meaning through reading, filming still objects, practicing JavaScript injection, watching Nollywood films, and gardening.

Most of the 11 ACT students have been involved in a variety of events and installations at the School.

One event which took place Tuesday was about creating a safe space for the discussion of reparations for past oppression, and it was combined with making homemade ice cream. Nolan Oswald Dennis G, the organizer, explained that "the kitchen is a political space." Citing the autobiography of Maya Angelou, Dennis explained that black people were banned from eating vanilla ice cream in the Jim Crow South.

The physical space of the School features chairs from various MIT departments; tables created with two sawhorses, a large particle board, and a sheet of clear plastic; a plant nursery; organically shaped red furniture; and a reflective push-pin wall.

Kisic Aguirre initially imagined that his department could display their artwork. During discussion over winter break, this idea further transformed to represent "what a different art school at MIT could look like," according to Dennis.

All events are free and open to the public. "We want to also engage with people not from MIT," Kisic Aguirre said.

This space is available until the end of the month. A list of events can be found at thefebruary.school.

—Mark Goldman

Comic on 1897 cover of *The Tech* had racial slur

Slavery, from Page 1

ing children. Their names have not been found.

Seemingly contradictorily, some publications have pointed out that Rogers hadties to the abolitionist movement.

However, in an interview with *The Tech*, students Kelvin Green '21 and Charlotte Minsky '20 explained that these publications are not incongruent with Rogers's slave ownership, but instead show the complicated nature of historical figures. Minsky said that instead of weighing Rogers on a "black and white [moral] scale" it is better to think that "all of these pieces are adding to this picture of him as a complicated figure."

Claire Kim G, the TA for the class and a specialist in the history of the mathematical sciences, wrote in an email to *The Tech* that people's understanding of the past changes over time and is affected by the ways in which history gets presented. For instance, she said, Emma Rogers made some "editorial decisions" over the presentation and publication of Rogers's letters that promote a particular image of him. In sum, she noted that Rogers was a "very complex" figure and that it would take much more work to describe him.

In the class, students each conducted research on topics of their choice. Green studied racial imagery in early volumes of Technique and *The Tech*; Minsky studied the demographic characteristics of southern students attending MIT during its first fifteen years; Mahi Elango '20 studied the relationship between slave institutions and MIT courses; and Alaisha Alexander '18 studied slavery terminology in science at MIT.

Green found that 11 of the 18 racialized images within the first 30 years of *The Tech* and the first 15 years of *Technique* depicted black people as waiters, even though research has shown that black people during that time period in Boston had a variety of occupations. One of Green's most shocking findings was an image on the cover of the Dec. 30, 1897 issue of *The Tech*, which showed two black waiters conversing with each other, the caption of which assumed they viewed themselves as "nigger[s]."

Minsky found that of the 30 Southern students attending MIT, ten were from Louisville, Kentucky, and many others were from border states. Louisville was a slave trade hub, despite its decreasing number of slaves.

Louisville also had a strong railroad industry, which many students entered after leaving MIT; railroads were tightly tied to Reconstruction. Minsky noted that students from border states had the "unique role of being between two worlds" — the North and the South, which contributed to the variety of their experiences at MIT.

Elango, according to a Facebook post she published Feb. 12, found that in 1874, a fourth year political economy class that was required for many students involved the discussion of slave service in the context of division of labor. She also found that MIT courses took students on field excursions to slave labored sites, like mines.

Alexander found that discussion surrounding J.M.W. Turner's painting "Slavers Throwing Overboard the Dead and Dying," a depiction of the Zong massacre that was reproduced in MIT's architecture studio, focused primarily on the form and composition. Critics stated virtually nothing about the prominent drowning slaves in the foreground of the painting.

In an email to *The Tech,* Alexander reported that she also found slavery terminology and racially charged language in past courses on anatomy and sociology. She strove to understand the context of and influences on this use of language.

Wilder said that he chose to conduct the research through a class because he "wanted ... to have MIT students write the history of MIT." Nobles also noted that the class format is a "pedagogical reflection to [MIT's commitment to] having students at the center."

Kim also expressed her support for the class format. "The class actualizes a more democratic approach to how universities grapple with the question of slavery because of its focus on including more constituencies in the discussions from the beginning," she wrote.

Other schools have also conducted research in this area. Twelve years ago, Brown University first published its groundbreaking report, Slavery and Justice, on the university's connection to slavery. Other elite universities have since followed, including Harvard, Princeton, and Columbia.

Wilder noted that in contrast to other schools' grassroots push, MIT has been proactive in its discovery. He plans to continue working with other technical universities to research their ties to slavery.

All parties expressed that a diverse response was expected from the MIT community. Nobles said she expected anger, upset, discomfort, and the "satisfaction that comes from knowing more."

Minsky said that rather than being shocked, people had simply never thought of these questions before. Green explained that this might stem from MIT's location in Massachusetts, a generally progressive state that tends not to be thought of in relation to slavery.

All hoped that the new findings would spark dialogue. Reif said, "We just want to share our emotions and our thoughts and our reactions ... we need to take our time to absorb this discovery, ... [figure] out as a group what does this mean to us and what should we do now."

Kim said in an interview with *The Tech* that she hoped that the MIT community would be encouraged to "enter into a discussion that we can all participate in that is not isolated to the Institute itself."

Green believed that these discoveries will help underscore the importance of history, saying, "Society has a bad case of short term memory loss. History reminds us of who we are." Alexander wrote, "Institutions are active players in history, not passive observers."

The History Department will continue to offer the MIT and Slavery class in upcoming semesters.

This Friday, Feb. 16, (1–2:30 p.m., sixth floor of the MIT Media Lab), MIT will hold an event with Murphy, Reif, and Wilder discussing the recent discoveries. During the event, the students in MIT and Slavery will also present their findings.

CSL rejected call for new survey

Smoking, from Page 1

the dorm.

CSL's report acknowledged this behavior as positive, but cited a lack of decline in the number smoking rooms in the decision to ban smoking.

Stanton said the report's claim that the number of smoking rooms in the dorm was not decreasing was inaccurate because not every room on a smoking hall is considered a smoking room.

"At the end of the day, we're disappointed with the result, but ... we at least were brought to the table and got to share our side of the story," Stanton said.

5E hall chair Sarah Pohorecky '19, in an email to *The Tech* on behalf of the affected floors, likewise expressed gratitude to CSL for including the affected students in the debate. However, she shared Stanton's opinion that the data CSL used to make the decision was inaccurate and out of date.

The Tech's survey "included opinions from students across MIT and did not properly represent the views of current and past members of our halls," Pohorecky wrote. She noted that CSL rejected the students' suggestion that it run a new survey, and although East Campus was eventually able to run its survey which "confirmed our belief that CSL's claims about impacts on nonsmokers were incorrect," the results "did little to change [the administration's] stance on removing smoking."

"We are disappointed that DSL decided to revoke our smoking rights instead of encouraging smoking cessation through education and resources," Pohorecky wrote, adding that the floors had the impression that the administration "came to the meetings with their decision already made."

Both Stanton and Pohorecky remarked on the importance of self-governance to the affected parallels.

"I don't think smoking is an integral part of 4W and 5E, but I think personal freedom is," Stanton said. "It's really about the ability to choose."

Some Harvard students dislike new appointment

Bacow, from Page 2

"These examples illustrate Bacow's biggest problem at MIT: communication," the editorial said. "At times Bacow didn't seem to realize that other people had different visions of MIT than he did. His obstinacy in clinging to his own vision caused friction between the student body and administration and only served to amplify controversy."

Bacow, whose academic research focuses on environmental policy, first joined the Department of Urban Studies and Planning at MIT in 1977. Prior to his time as chancellor, Bacow also served as faculty chair from 1995 to 1997.

"I learned how to be a professor and a university leader at MIT," Bacow told MIT News Sunday.

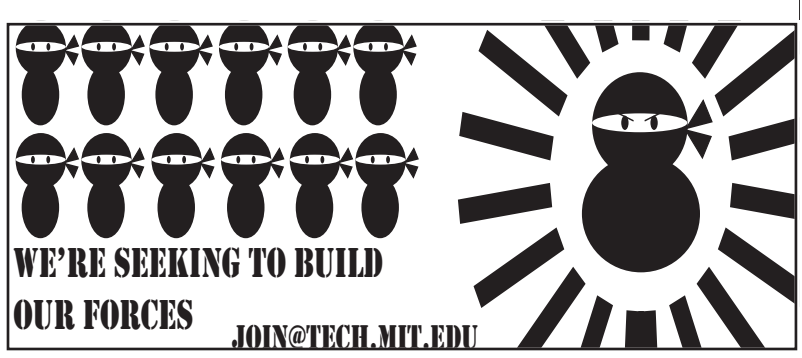
In 2001, Bacow left MIT to assume the presidency at Tufts, a position he held until 2011. Bacow then returned to Harvard, where he had acquired three graduate degrees (a JD, a master's, and a PhD) a few decades prior, as a Corporation member.

Bacow will begin his new post on July 1, 2018.

"Over the last 50 years, Harvard and MIT have developed some extraordinary partnerships," President L. Rafael Reif wrote in a letter notifying the MIT community of Bacow's appointment Monday. Reif cited the Broad Institute and edX, among other examples.

"Today, as our two institutions seek to tackle the world's great challenges, I look forward to working with Larry in the same spirit of creative collaboration," Reif continued.

Bacow succeeds Drew G. Faust, Harvard's first female president. Students hoping for another first — the first person of color to take Harvard's highest role — expressed disappointment at the decision to choose Bacow in *The Harvard Crimson*, although Bacow defended his record of supporting diversity in a press conference earlier this week.



DID YOUR MIT ESSAYS GET YOU IN?

The Tech is collecting successful application essays (**hint: yours!**).

Email your pieces to *cl@the-tech.mit.edu*!

SPORTS BLITZ

Men's Squash (15–5, No. 22) manhandled No. 2 Tufts at home by an 8–1 margin in the singles competitions.

Men's Swimming and Diving (9–1, No. 4) have been doing nothing but winning lately and set a record by seeing 17 members on the NEWMAC Academic All-Conference Team. Peter Crocker '20 and the Engineers 200 medley relay team (Tim Kralj '20, Brandon McKenzie '19, Sam Ubellacker '20, and Joshua Tomazin '18) were also named NEWMAC Athletes of the Week.

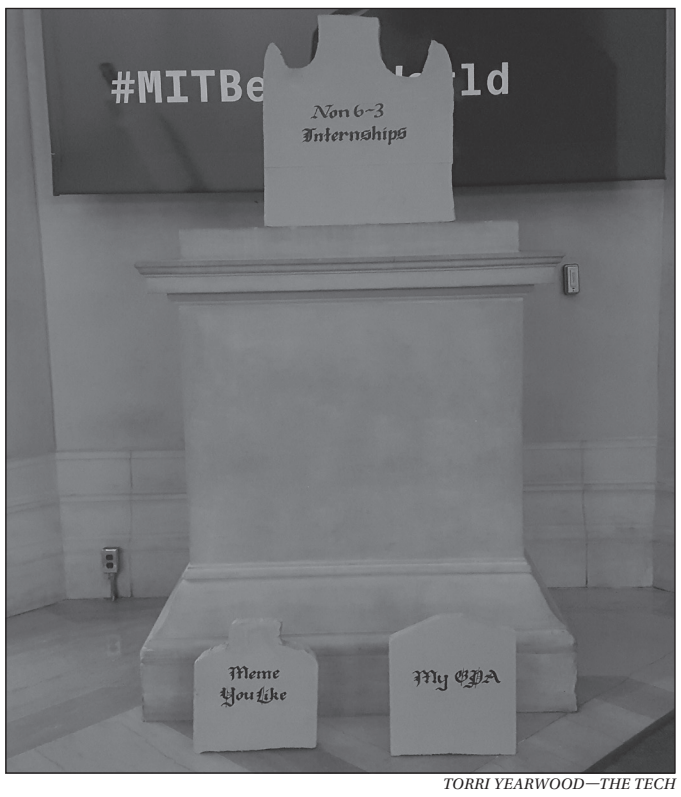
Men's Track and Field (No. 3) had a flurry of outstanding performances over the week, highlighted by the distance medley relay team for the Engineers, who set the nationwide record of 9:54.23 at the David Hemery Valentine Invitational.

Women's Basketball (14–8, 9–5 NEWMAC) destroyed Mount Holyoke in a 75–15 win where Jocelyn Luizzi '21 came off the bench to single-handedly outscore the entire road team, en route to NEWBA Rookie of the Week honors. They then proceeded home, slaughtering by defeating Simmons College in a similar fashion. The team then combined for eight NEWMAC Academic All-Conference titles, a league high. The list of honorees included Cathryn Hart '18, Lindsay Westlake '18, Sophie Gershon '19, Kara Holinski '19, Kristen Ngan '19, Dolly Yuan '19, and first-timers Maude Gull '19 and Cindy Si '20.

Men's Basketball (18–5, 8–4 NEWMAC) fought hard for an overtime win at home against Wheaton College but have generally been struggling lately, dropping a few close ones on the road and blowing a late lead at home.

TORRI YEARWOOD—THE TECH

A disco ball-shaped hack appeared in Lobby 7 the morning of Feb. 12 and then was taken down quite promptly.



TORRI YEARWOOD—THE TECH

Tombstones appeared in Lobby 7 on Valentine's Day. References ranged from MacGregor Convenience Store to 'My GPA.'

ÁRON RICARDO PEREZ-LOPEZ —THE TECH

The disco ball-shaped hack was seen on the floor of Lobby 7 surrounded by caution tape.

It's Dangerous to Go Alone!

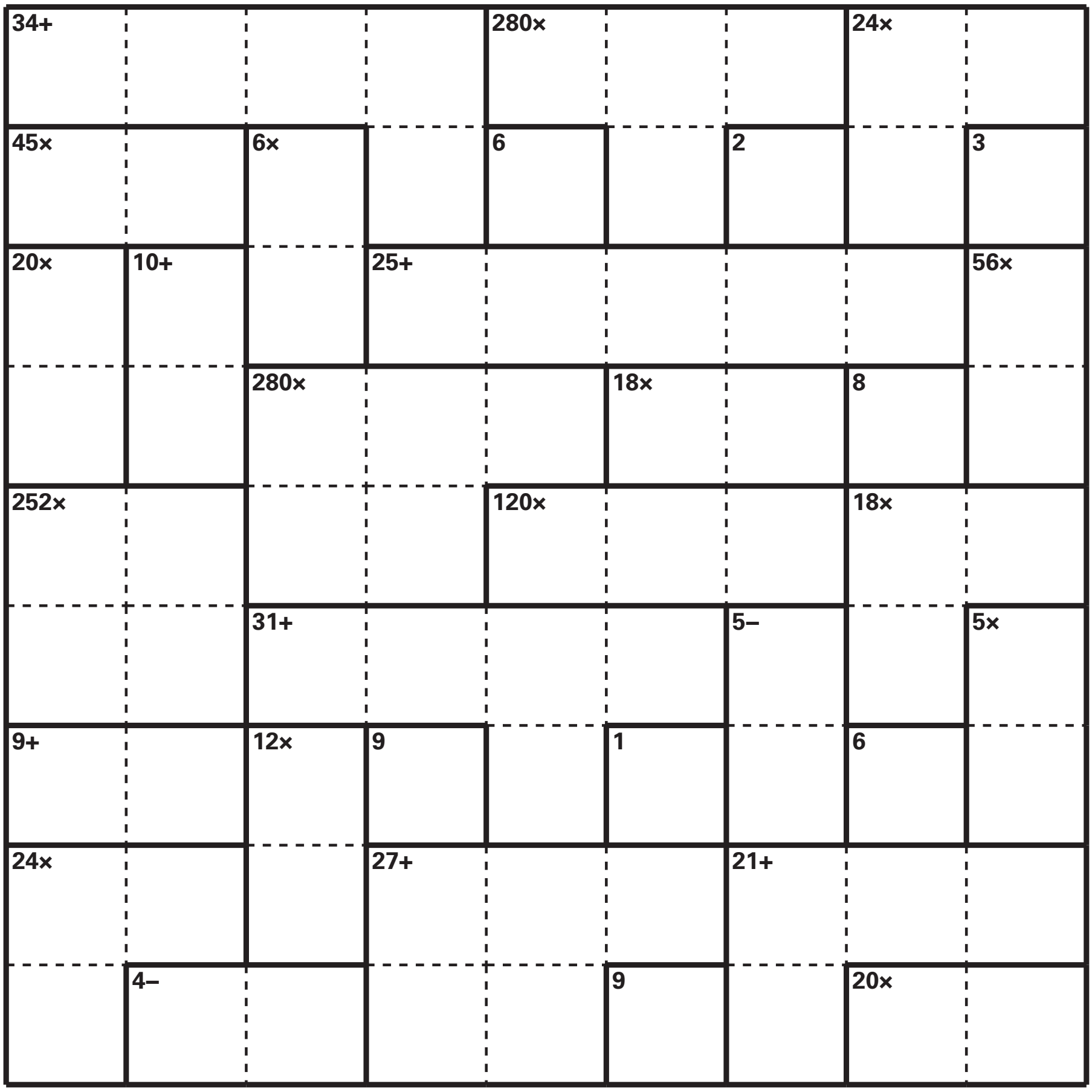
Take This.

photo@tech.mit.edu

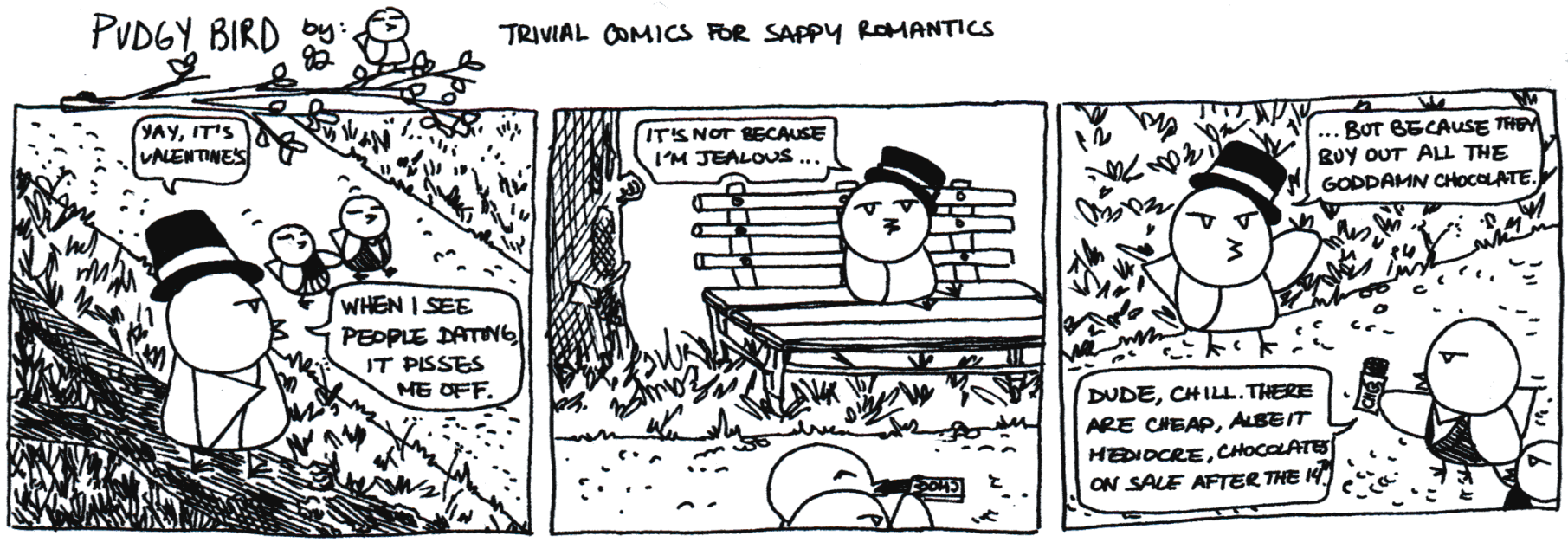
FUNFUNFUNF

XOXO

Solution, page 7



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–9. Follow the mathematical operations for each box.

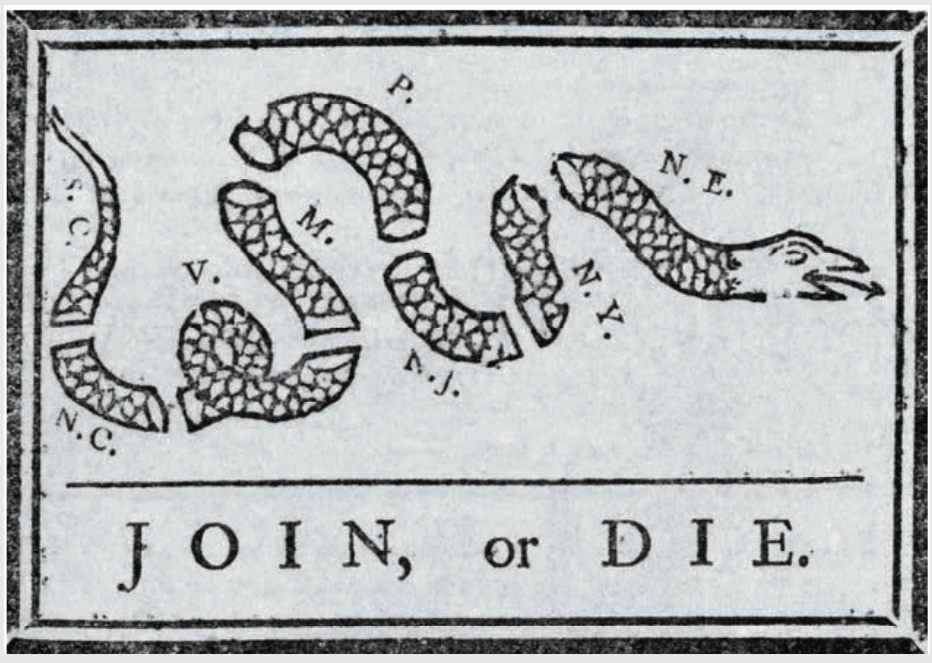


FUNFUNFUNF

FUNFUNFUNF

Want to draw graphics that engage, provoke, and speak to the MIT community?

The Tech is looking for editorial cartoonists.



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The MIT Lindy Hop Society *proudly presents*

A Fusion Social Dance and Concert

BREAD & BONES

featuring
Amy Kucharik and
Tiger Moan

Saturday
February 17

Event sponsored by
Graduate Student Council
all graduate students welcome

Laura Meilman

Join us for an incredible night of music and Fusion dancing featuring Boston's own **Amy Kucharik and Tiger Moan**.

Saturday, February 17
Walker Memorial

Fusion dance lesson 7:30 p.m.
Music and social dancing 8:30 p.m.–12:30 a.m.

Tell me more about Fusion dancing!

Fusion is partner dancing that freely combines multiple dance aesthetics and musical genres. It means time to bust out those Tango, Ballroom, Salsa, Swing, Blues, etc. moves. Partner connection and musicality are key. Want to learn more? Check out the complimentary lesson at 7:30 p.m.!

Who is Amy and Tiger Moan?

Amy Kucharik, a talented singer/songwriter from Somerville and familiar face around the Boston dance scene, is a dancer's dream musician. With her band, Tiger Moan, she has immense musical range and her influences range from ragtime blues, country, and folk, to reggae, funk and infectious, danceable swing. The songs are catchy and sexy, and we invite you to listen closely to Amy's witty, sometimes dark-humored, lyrics.

Why "Bread and Bones"?

It's the title of a brilliant Amy Kucharik song off her EP, *Dance Crush Blues*. Take a listen and you'll know why we chose it for our theme.

What if I am not a dancer?

No problem! This event is open to everyone, dancer and non-dancers alike! We will have part of the room set up with chairs so you can enjoy the live music.

Admission

MIT Students: $3 (Special thanks to the MIT LEF for subsidizing MIT student admission.)
MIT Community: $5
Other students with valid ID: $5
General public: $10

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Eliza is a 10x ninja rockstar full-stack neurolinguistic hacker coding deep recurrent neural nets in Javascript and using them to build actionable insights on big data in the cloud.

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